VAIDEHI BEDEKAR

Plot no 234 Ulkanargi,Aurangabad,Maharashtra 431005
9156950105 Email Linkedin github DOB: 01/05/2002

Education

Vellore Institute of Technology, AP **Sep. 2020 – May 2024**
Bachelor of Technology in Computer Science *8.3 cgpa*

Coursework

- Data Structures
- Deep Learning
- Machine Learning
- Database Management
- Algorithm Analysis
- Cloud Computing
- Software Engineering
- NLP

Projects

Medical Recommendation Application | *Python,Deep learning,NLP,Android Studio* **Present**

- Designing and implementing a cutting-edge **Medical Recommendation Application** by leveraging extensive medical diagnostic and prescription data.
- Engineering a sophisticated **knowledge graph** by preprocessing and integrating diverse medical data sources, enhancing its capabilities with graph embeddings for efficient information retrieval.
- Pioneering the utilization of state-of-the-art **Graph Neural Networks (GNNs)** enhanced with attention mechanisms within an active learning framework, significantly improving the system's adaptability and recommendation precision.

PCOS Detection using MLOPS DVC Pipeline | *Python,Deep Learning* **June 2023**

- Developed a Python application utilizing a hybrid Convolutional Neural Network (CNN) model with an accuracy of **95.3 %** for the detection of Polycystic Ovary Syndrome (PCOS) based on ultrasound images.
- Implemented the **Data Version Control** (DVC) MLops tool to establish an efficient pipeline for tracking and managing the entire ML workflow.
- Engineered essential modules, including Logging, Utilities, and Exception Handling, to enhance code organization and maintainability.
- Designed a comprehensive pipeline encompassing data injection, data transformation, model construction, model evaluation, and model prediction and Orchestrated **CI/CD** automation through GitHub for seamless project development and deployment.

Stock Sentiment analysis and Prediction Application | *Python,Streamlit* **April 2023**

- Created an interactive web application for real-time stock movement prediction and sentiment analysis.
- Deployed the application on the Streamlit community server, enhancing accessibility and automating data visualization.
- Engineered a robust News and Sentiment Pipeline for stocks, leveraging the Financial-summarization-peagasus model for financial news summarization and a **Stacked LSTM model** for stock and crypto data prediction.

Technical Skills

Languages: Python, Java,HTML/CSS,SQL
Developer Tools: VS Code,Anaconda,Cuda,Intellij, AWS, Android Studio,Docker
Technologies/Frameworks:TensorFlow,PyTorch,Keras,ScikitLearn,Git,StreamLit,Docker, Linux,Machine Learning,Deep Learning,NLP,Pandas,Numpy, CUDA,Nodejs,Android,CI/CD

Position of Responsibility

President of Hostel Sports Committee at VIT-AP University **July 2022 – Dec 2022**

President of Marathi Association at VIT-AP University **Jan 2023 - May 2023**

Achievements

Research on Medical Recommendation System Accepted in EAI ICISML **June 2023**

* Collaborated with Aditya Kadam and Prof. Sagar Pande to develop MEDx: A pioneering Hybrid Graph and GPT-powered Medical Recommendation System.
* Facilitated early disease detection through innovative AI-driven patient recommendations.

Secured 7th Rank among all Engineering Clinics Group Projects in VIT AP **May 2023**

* Designed cost-efficient weapon and intruder detection drone leveraging YOLOv8 with an accuracy of **85 %** for real-time firearm identification in live video streams.
* Spearheaded the development of a cutting-edge model for automated weapon recognition, enhancing security and threat response capabilities.